

INTERNATIONAL SEARCH REPORT

PCT/US 03/32427

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 B22D41/54 B22D41/58

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B22D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 137 189 A (HALL RICHARD G ET AL) 11 August 1992 (1992-08-11) column 2, line 35 - line 41 column 4, line 1 - line 14 claims 1,6; figures 1-4 ---	1-17
Y	JP 54 126631 A (AIKOH CO) 2 October 1979 (1979-10-02) Not same permeability units, but novelty is questionable ---	1-17
Y	US 5 723 055 A (SIMOES JOSE ANTONIO FARIA ET AL) 3 March 1998 (1998-03-03) Not same permeability units, but novelty is questionable column 2, line 5 - line 50; figures 1-3 --- -/--	1-17

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

\*A\* document defining the general state of the art which is not considered to be of particular relevance

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\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

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\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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\*&\* document member of the same patent family

Date of the actual completion of the international search

15 March 2004

Date of mailing of the international search report

26/03/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4 634 685 A (JESCHKE PETER ET AL) 6 January 1987 (1987-01-06) column 1, line 39 - column 2, line 42 column 4, line 1 - line 16 ---	1-17
Y	EP 0 669 293 A (NORTH AMERICAN REFRACTORIES) 30 August 1995 (1995-08-30) page 1, line 23 - line 52 page 3, line 20 - line 42 page 4 - page 5; claims 1,9 ---	1-17
A	EP 0 576 212 A (FOSECO INT) 29 December 1993 (1993-12-29) column 2, line 31 - line 42 ---	1-17
A	GB 1 368 390 A (STOECKER & KUNZ GMBH) 25 September 1974 (1974-09-25) , sentence 75 - sentence 92; figure 1 ---	1-17
A	WO 00 59657 A (ANDO MITURU ;MURAI TOSHIYUKI (JP); OGURI KAZUMI (JP); TOKYO YOGYO) 12 October 2000 (2000-10-12) Permeability value in Darcy For language convenience purpose, reference is made to US6533146 patent family member in english language; cf US family member col.5, 1.1-6 ---	1-17
A	FR 2 672 527 A (VESUVIUS FRANCE SA) 14 August 1992 (1992-08-14) abstract; figure 1 ---	1-17
Y	ASTM C 204 - 00: "STANDARD TEST METHOD FOR FINENESS OF HYDRAULIC CEMENT BY AIR-PERMEABILITY APPARATUS" ASTM INTERNATIONAL STANDARD, ASTM INTERNATIONAL, US, 2000, pages 1-8, XP001164234 "BLAINE air-permeability apparatus, permeability is expressed in terms of a specific surface unit is square centimeters per gram" ---	1-17
Y	M. INNOCENTINI ET AL.: "Influence of air compressibility on the permeability evaluation of refractory castables" J. OF AMERICAN CERAMIC SOCIETY, vol. 83, no. 6, 2000, pages 1536-1538, XP001179844 page 1537, left-hand column; figures 1,2 Paragraph "Conclusions" p.1538 ---	1-17
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	M. INNOCENTINI ET AL.: "Permeability of porous ceramics considering the Klinkenberg and inertial effects" J. OF AMERICAN CERAMIC SOCIETY, vol. 84, no. 5, 2001, pages 941-944, XP002273206 page 1, left-hand column ---	1-17
Y	M. INNOCENTINI ET AL.: "Modified Pressure DECAY technique for evaluating the permeability of highly dense refractories" J. OF AMERICAN CERAMIC SOCIETY, vol. 83, no. 1, 2000, pages 220-222, XP002273207 page 220, left-hand column page 221, right-hand column page 222, right-hand column ---	1-17
Y	M. INNOCENTINI ET AL.: "Permeable porosity of refractory castables evaluated by the Water expulsion porosimetry technique" J. OF AMERICAN CERAMIC SOCIETY, vol. 84, no. 1, 2001, pages 236-238, XP002273208 page 236, left-hand column page 238, right-hand column -----	1-17

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